

Easyflex™

Neoprene Single Arch Flexible Connectors



- Greater Movements.
- Higher Pressure Ratings.
- No gaskets required.
- Absorbs & Isolates Vibrations/Noise/Shock.
- Molded Design for better quality upto size 14" NB.
- Reduces System Noise.
- Absorbs Pipe Movement/Stress.
- Compensates for Misalignment/Offset.
- Available with tie rod assembly (Specially Recommended)
- Size from 1" NB to 72" NB.



Temperature Ratings

Standard (-) 10° to 70°C

* Flexible Connectors for special applications in different Polymers and Pressure ratings available as per customer specifications.

Compliance - ASTM F 1123-87 (2004). Testing as per Fluid Sealing Association standard FSA-PSJ-701-06.

Movement Capability

Nominal Bore (inch)	Length (inch)	Axiol Corp. (inch)	Axiol Elongation (inch)	Transverse Deflection (inch)	Angular Movement Deg.	Torsional Movement Deg.
0.75	5	0.47	0.125	0.47	14.5	3
1	5	0.47	0.125	0.47	14.5	3
1.25	6	0.47	0.125	0.47	14.5	3
1.50	6	0.47	0.125	0.47	14.5	3
2	6	0.47	0.125	0.47	14.5	3
2.5	6	0.47	0.125	0.47	12.5	3
3	6	0.47	0.125	0.47	10	3
4	6	0.47	0.125	0.47	7.5	3
5	6	0.47	0.125	0.47	6	3
6	6	0.47	0.125	0.47	5	3
8	6	0.47	0.125	0.47	5	3
10	8	0.75	0.375	0.47	4	3
12	8	0.75	0.375	0.47	4	3
14	8	0.75	0.375	0.47	2.5	2
16	8	0.75	0.375	0.47	2.5	2
20	8	0.75	0.375	0.47	2	1
22	10	0.87	0.43	0.47	2	1
24	10	0.87	0.43	0.47	2	1
26 - 28	12	1	0.47	0.47	2	1
34 - 40	12	1	0.47	0.47	1.5	1
42 - 72	12	1	0.47	0.47	1.5	1

*Standard PN10 and PN16 REJ design chart for sizes 1"NB to 14"NB available on next page

- Due to policy of continual improvement, the specifications are subject to change without prior notice.
- Measurements are subject to 5% tolerance.
- To achieve good results do not over load fitting more than designed parameters as per drawing / catalogue.
- Compliance - As per FSA Standards USA.



PN - 10

Nominal Size (I.D.) INCH	Length Nominal f.f. INCH	Flange Dia Nominal INCH	Flange Thick INCH	Expansion Joint Style	BS 10 Table D			ANSI 125/150# LBS			Operating Conditions	
					Hole Dia INCH	No. of Holes NOS.	B.C.D. (Approx) INCH	Hole Dia INCH	No. of Holes NOS.	B.C.D. (Approx) INCH	Pressure Design	Test Pressure
1	6	4.49	0.55	EF 812	0.55	4	3.27	0.63	4	3.11	10 Bar	15 Bar
1.25	6	4.76	0.55	EF 812	0.55	4	3.43	0.63	4	3.50	10 Bar	15 Bar
1.5	6	4.96	0.55	EF 812	0.55	4	3.86	0.63	4	3.86	10 Bar	15 Bar
2	6	5.98	0.55	EF 812	0.71	4	4.49	0.75	4	4.76	10 Bar	15 Bar
2.5	6	7.01	0.55	EF 812	0.71	4	5.00	0.75	4	5.83	10 Bar	15 Bar
3	6	7.52	0.55	EF 812	0.71	4	5.75	0.75	4	5.98	10 Bar	15 Bar
4	6	9.02	0.55	EF 812	0.71	4	7.01	0.75	8	7.52	10 Bar	15 Bar
5	6	10.00	0.55	EF 812	0.71	8	8.27	0.87	8	8.50	10 Bar	15 Bar
6	6	10.98	0.55	EF 812	0.71	8	9.25	0.87	8	9.49	10 Bar	15 Bar
8	6	13.50	0.75	EF 812	0.71	8	11.50	0.87	8	11.73	10 Bar	15 Bar
10	8	15.98	0.75	EF 812	0.83	8	14.02	1.00	12	14.25	10 Bar	15 Bar
12	8	19.02	0.75	EF 812	0.83	12	15.98	1.00	12	17.01	10 Bar	15 Bar
14	8	20.98	0.87	EF 812	0.94	12	18.50	1.13	12	18.74	10 Bar	15 Bar

PN - 16

Nominal Size (I.D.) INCH	Length Nominal f.f. INCH	Flange Dia Nominal INCH	Flange Thick INCH	Expansion Joint Style	BS 10 Table E			ANSI 125/150# LBS			Operating Conditions	
					Hole Dia INCH	No. of Holes NOS.	B.C.D. (Approx) INCH	Hole Dia INCH	No. of Holes NOS.	B.C.D. (Approx) INCH	Pressure Design	Test Pressure
1	6	4.49	0.55	EF 912	0.63	4	3.27	0.63	4	3.11	16 Bar	24 Bar
1.25	6	4.76	0.55	EF 912	0.63	4	3.43	0.63	4	3.50	16 Bar	24 Bar
1.5	6	4.96	0.55	EF 912	0.63	4	3.86	0.63	4	3.86	16 Bar	24 Bar
2	6	5.98	0.55	EF 912	0.75	4	4.49	0.75	4	4.76	16 Bar	24 Bar
2.5	6	7.01	0.55	EF 912	0.75	4	5.00	0.75	4	5.83	16 Bar	24 Bar
3	6	7.52	0.55	EF 912	0.75	4	5.75	0.75	4	5.98	16 Bar	24 Bar
4	6	9.02	0.55	EF 912	0.75	8	7.01	0.75	8	7.52	16 Bar	24 Bar
5	6	10.00	0.55	EF 912	0.75	8	8.27	0.87	8	8.50	16 Bar	24 Bar
6	6	10.98	0.55	EF 912	0.87	8	9.25	0.87	8	9.49	16 Bar	24 Bar
8	6	13.50	0.75	EF 912	0.87	8	11.50	0.87	8	11.73	16 Bar	24 Bar
10	8	15.98	0.75	EF 912	0.87	12	14.02	1.00	12	14.25	16 Bar	24 Bar
12	8	19.02	0.75	EF 912	0.98	12	15.98	1.00	12	17.01	16 Bar	24 Bar
14	8	20.98	0.87	EF 912	0.98	12	18.50	1.13	12	18.74	16 Bar	24 Bar

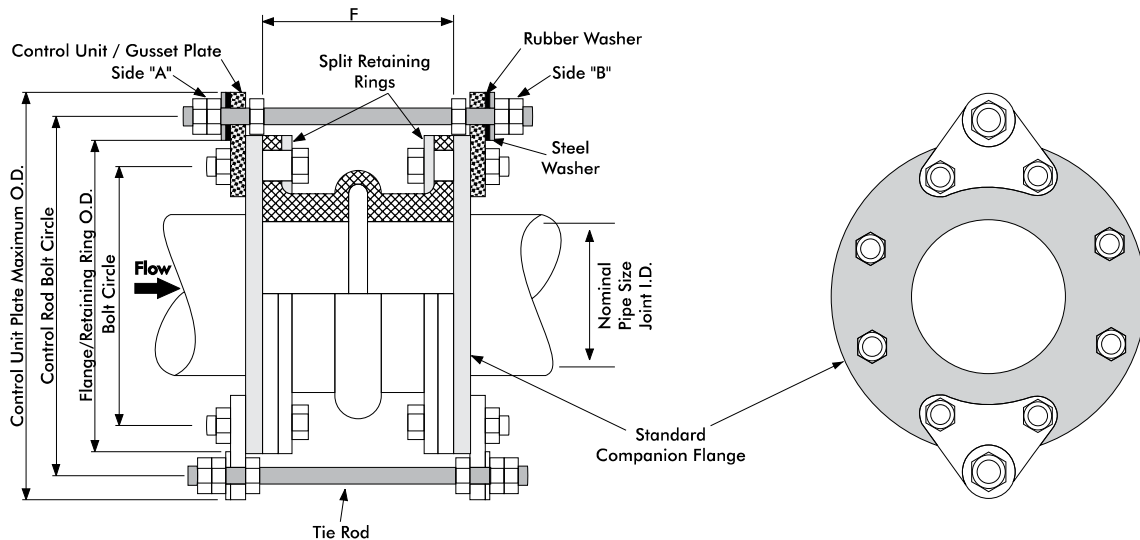
Standard Pressure Rating from 16" NB.

- 16" NB - 24" NB - 7.5 kg/sq cm²
- 26" NB - 64" NB - 6 kg/sq cm²
- 64 NB - 72" NB - 4.5 kg/sq cm²
- Higher Pressure Ratings and Movement Capabilities Available.
- Flexible Connectors are available in a variety of polymers for different applications duty conditions.
- For Sizes above 72" NB and also for Higher Pressure Rating Bellows can be designed as per customer requirement.
- Vacuum - 26 inches of HG.
- Please refer to our engineering department for special duty conditions/polymers.



Why Control Units are Required

- Lack of Proper pipe anchors - Initial surge of pump at an elbow may cause hyper-extension.
- Lack of proper pipe supports - Easyflex expansion joints and vibration dampeners are not designed to support the weight of the piping system.
- Lack of proper alignment guides - Control rods will prevent lateral movement beyond design specifications.
- Wide fluctuations of temperature - The changing from hot to cold media may cause excessive expansion or contraction even when the pipe is properly anchored.
- Testing at elevated pressures - The use of anchors and/or control rods is required to offset the thrust.



Pre-Installation Check List

- Compare the requirements of the system to ensure the proper number of control rods have been specified. (Minimum of two (2) required.)
- Check Control Units to be sure all parts are included. The unit consists of minimum four (4) gusset plates, two (2) tie rods with six (6) nuts and six (6) metal / rubber washers. For bigger sizes and higher pressures the quantities might increase. Contact our Engg. Dept. or refer drawing.

Installation

- Bolt the control unit plates to the outer side of the Companion flanges at the same time while the bolt is being installed through the split retaining ring / rubber flange / companion flange and the control unit / gusset plates. They are to be equally spaced around the circumference of the flange.
- Install the tie rod through the top hole in each gusset plate after placing rubber/metal washer on either side of the gusset plate. (See illustration above.)
- Tighten the first two nuts ("A" location) in the direction of flow tightly. Check the recommended movement for the particular size from our catalogue and keep the second set of nuts ("B" location) loose accordingly. The second check nut should be tightened keeping space/gap for movement capability.

Note :

If excessive compression exists, optional compression sleeves should be specified. The compression sleeves will limit the compression to the maximum allowable movement.

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